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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE <small>FORM PTO-1390 (REV. 1-98)</small>		ATTORNEY'S DOCKET NUMBER 2001-1008
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/030923
INTERNATIONAL APPLICATION NO. PCT/NL00/00495	INTERNATIONAL FILING DATE July 13, 2000	PRIORITY DATE CLAIMED July 13, 1999
TITLE OF INVENTION DETECTION SYSTEM WITH VIDEO CAMERA		
APPLICANT(S) FOR DO/EO/US Cornelis Simon Adriaan DE NOOD and Willem ANGEL		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</p> <p>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11. to 16. below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information:</p>		
International Preliminary Examination Report.		
Abstract.		
Search Report.		
Application Data Sheet.		

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. PCT/NL00/00495	ATTORNEY'S DOCKET NUMBER 2001-1008
17. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS PTO USE ONLY	
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):			
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO		\$ 1,040.	
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO		890.	
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO		740.	
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)		710.	
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)		100.	
ENTER APPROPRIATE BASIC FEE AMOUNT =			
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$ 130	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	6 - 20 =	0	x \$ 18.
Independent claims	1 - 3 =	0	x 84.
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ 280.	
TOTAL OF ABOVE CALCULATIONS =		\$ 1,020	
Reduction of 1/2 for small entity		\$	
SUBTOTAL =		\$ 1,020	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$	
TOTAL NATIONAL FEE =		\$ 1,020	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$	
TOTAL FEES ENCLOSED =		\$ 1,020	
		Amount to be refunded:	\$
		charged:	\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,020.</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required by 37 CFR 1.16 and 1.17, or credit any overpayment to Deposit Account No. 25-0120. A duplicate copy of this sheet is enclosed.</p>			
<p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</p>			
SEND ALL CORRESPONDENCE TO:		January 14, 2002	
Young & Thompson 745 South 23rd Street 2nd Floor Arlington, VA 22202 (703) 521-2297		CUSTOMER NO. 000466  SIGNATURE Benoit Castel NAME 35,041 REGISTRATION NUMBER	

PATENTS

#4
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of
Cornelis S.A. DE NOOD et al.
Serial No. (unknown)
Filed herewith
DETECTION SYSTEM WITH VIDEO
CAMERA

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to the first Official Action and calculation of the filing fee, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please substitute pages 1 and 2 as originally filed with pages 1, 1a and 2 as filed in the Article 34 amendment of August 28, 2001. These pages are attached hereto and marked "AMENDED SHEET".

IN THE CLAIMS:

Please substitute Claims 1-8 as originally filed, with Claims 1-6 as filed in the Article 34 amendment of August 28, 2001. The page containing Claims 1-6 is marked "AMENDED SHEET" and is attached hereto. Following the insertion of Claims 1-6, please amend these claims as follows:

Amend claim 4 as follows:

Cornelis S.A. DE NOOD et al.

--4. (amended) Detection system according to Claim 2 or 3, characterised in that the temporary memory section comprises a FIFO memory.

--5. (amended) Detection system according to Claim 1, characterised in that the memory device is equipped for storing the data on the element and the permanently stored video images in relation to one another.--

R E M A R K S

The above changes in the specification and claims merely place the national phase application in the same condition as it was during Chapter II of the international phase, with the multiple dependencies in the claims being removed.

Attached hereto is a marked up version of the changes made to the claims by the current amendment. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

Respectfully submitted,

YOUNG & THOMPSON

By



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January 14, 2002

WO 01/04844

1
*1/PYR***Detection system with video camera**

The invention relates to a detection system comprising at least a receiver, a detector and an element that can be brought into one or more predetermined states, the receiver reacting to 5 the states of the element when the latter is brought into the vicinity of the receiver and controlling the detector to emit a detection signal that is associated with the state of the element.

A detection system of this type is used in current identification systems, electronic badges or cards, which are in, or can be brought into, a predetermined state, being widely 10 used as the element. In this predetermined state an identification number has been incorporated in the badge or the card, the identification number being read when the badge or the card is brought into the vicinity of the receiver and the detector determining whether the identification number is a valid identification number. If this number is valid the detector emits a detection signal, by means of which access is granted to the person submitting or 15 wearing the card.

The detection system can also be used in an anti-theft system, in which case, depending on the construction, the detection system can consist of a single antenna for wall or floor mounting or of several antennas which are positioned on either side of a passageway. In this case also the element can be a tag or card which has been affixed to the article to be provided 20 with security. If payment has been made for the article the tag is brought into a state, the receiver (receiver antenna) reacting to said state. The detector is controlled by the receiver to emit an alarm or no alarm, depending on the state of the tag (paid for or not).

The aim of the invention is to provide a detection system of a type mentioned in the preamble with which even better security is possible.

25 Said aim is achieved according to the invention in that a video camera focused on the surroundings of the receiver is present for recording the wearer wearing the element and a memory device is fitted for storing the images recorded by the video camera.

The invention is based on the insight that by storing the identity of the person wearing 30 the element or submitting the element an additional check for security purposes is possible. In situations where a substantial degree of security is useful or where this link between wearer and element is desirable, simultaneous recording of the state of the element, or the information thereon, in relation to the identity of the wearer or the person submitting the element can take place by means of the invention.

In one embodiment of the invention the memory means are equipped for temporary storage of the recorded video images for a predetermined period and permanent storage of the temporarily stored video images in response to the detection signal from the detector. For example, continuous video images of all goods, vehicles, animals or people passing the receiver can be stored in the memory means. This visual identity of the goods, vehicles, animals or people is stored for only a limited period if a predetermined state of the element, badge, tag or card is not also recognised by the detection system. However, if such a state is recognised, recording of this state or information then takes place together with the stored associated video information. As a result of the measure of temporary storage of the video images and conditional permanent storage of the video images a small memory capacity can suffice.

Preferably, the memory device comprises a temporary memory section and a permanent memory section with a transfer channel, controlled by the detection signal, between them. The temporary memory section can comprise a FIFO memory.

Further developments and embodiments of the invention are described in the further dependent claims.

The invention will be explained in more detail below with reference to the drawings. In the drawings:

Fig. 1 shows an embodiment of the detection system according to the invention used with an identification system for access control of persons; and

Fig. 2 shows an embodiment of the detection system according to the invention which, by way of example, is used in an anti-theft security system.

Fig. 1 shows a door 1 that can give access to a secure area. The door 1 can be opened or is opened only when an authorised person wishes to enter the secure area. Authorised persons are given an element in the form of an identity card or badge in order to open the door or to release the opening thereof. This identity card is brought into a state in which an identification number, which may or may not be encoded, has been incorporated on said identity card.

A receiver 2, which is fixed to the wall 3 alongside the door 1, operates in conjunction with the identity badges or cards. A video cell 4 is positioned close to the receiver 2.

When the identity badge or card is brought into the vicinity of the receiver 2 the identification number or other information on the identity badge is read by the receiver, optionally contact-free. At the same time the video cell 4 records video images of the person submitting the identity card 5 and the video images are stored in a memory device, which is

CLAIMS

1. Detection system comprising at least a receiver, a detector and an element that can be brought into one or more predetermined states, the receiver reacting to the states of the element when the latter is brought into the vicinity of the receiver and controlling the detector to emit a detection signal that is associated with the state of the element, characterised in that a video camera focused on the surroundings of the receiver is present for recording the wearer wearing the element and a memory device is fitted for storing the images recorded by the video camera.

5 10 2. Detection system according to Claim 1, characterised in that the memory device is equipped for temporary storage of the recorded video images for a predetermined period and permanent storage of the temporarily stored video images in response to the detection signal from the detector.

15 3. Detection system according to Claim 2, characterised in that the memory device comprises a temporary memory section and a permanent memory section with a transfer channel, controlled by the detection signal, between them.

4. Detection system according to Claim 3, characterised in that the temporary memory section comprises a FIFO memory.

20 5. Detection system according to one of Claims 1 - 4, characterised in that a time and/or location indicator is present which is controlled by the detection signal from the detector in order to be able to record the time and/or location relating to the permanently stored video images in the permanent memory section.

6. Detection system according to one of Claims 1 - 5, characterised in that a reader is fitted for reading data contained on the element.

25 7. Detection system according to Claim 6, characterised in that the memory device is equipped for storing the data on the element and the permanently stored video images in relation to one another.

30 8. Detection system according to Claim 7, characterised in that the element is provided with recognition data on the wearer associated with the element and in that a processing device is provided which is provided with image recognition software for deriving recognition data from the permanently stored video images and comparing these with the recognition data read from the element.

VERSION WITH MARKINGS TO SHOW CHANGES MADE

4. Detection system according to Claim 2 ~~or 3~~, characterised in that the temporary memory section comprises a FIFO memory.

5. Detection system according to Claim ~~1-4~~ 1, characterised in that the memory device is equipped for storing the data on the element and the permanently stored video images in relation to one another.

ABSTRACT OF THE DISCLOSURE

Detection system including at least a receiver, a detector and an element that can be brought into one or more predetermined states. The receiver reacts to the states of the element when the latter is brought into the vicinity of the receiver. The receiver controls the detector in order to emit a detection signal that is associated with the state of the element. There is a video camera focused on the surroundings of the receiver for recording the wearer wearing the element and a memory device is installed for storing the images recorded by the video camera.

EPO - DG 1
28.08.2001

New introductory part of the specification BO 42685

Detection system with video camera

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The invention relates to a detection system comprising at least a receiver, a detector and an element that can be brought into one or more predetermined states, the receiver reacting to the states of the element when the latter is brought into the vicinity of the receiver and controlling the detector to emit a detection signal that is associated with the state of the element.

A detection system of this type is used in current identification systems, electronic badges or cards, which are in, or can be brought into, a predetermined state, being widely used as the element. In this predetermined state an identification number has been incorporated in the badge or the card, the identification number being read when the badge or the card is brought into the vicinity of the receiver and the detector determining whether the identification number is a valid identification number. If this number is valid the detector emits a detection signal, by means of which access is granted to the person submitting or wearing the card.

The detection system can also be used in an anti-theft system, in which case, depending on the construction, the detection system can consist of a single antenna for wall or floor mounting or of several antennas which are positioned on either side of a passageway. In this case also the element can be a tag or card which has been affixed to the article to be provided with security. If payment has been made for the article the tag is brought into a state, the receiver (receiver antenna) reacting to said state. The detector is controlled by the receiver to emit an alarm or no alarm, depending on the state of the tag (paid for or not).

The aim of the invention is to provide a detection system of a type mentioned in the preamble with which even better security is possible.

Said aim is achieved according to the invention in that a video camera focused on the surroundings of the receiver is present for recording the wearer wearing the element and a memory device is fitted for storing the images recorded by the video camera.

The invention is based on the insight that by storing the identity of the person wearing the element or submitting the element an additional check for security purposes is possible. In situations where a substantial degree of security is useful or where this link between wearer

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and element is desirable, simultaneous recording of the state of the element, or the information thereon, in relation to the identity of the wearer or the person submitting the element can take place by means of the invention.

From WO 98/11520 A1 a security system is known which comprises an interrogator 42 suitable for use with a security tag. The interrogator includes a receiver 50 connected to the input of the data processing and control circuitry (54) for processing and controlling the captured information on the security tag. This known system further includes a video camera (58) for capturing an image of a predetermined zone and a video recorder for storing the video signal on a memory such as a videotape. The video recorder is either a continuous or event-oriented record of activity in the detection zone.

The problem is that because recognisable image information can only be obtained from images which show the person to be captured from a specific view point and the image material that is stored during identification of a tag or card is often not usable. It must be possible to have available images recorded earlier than images recorded at the point in time when the tag is detected.

The aim of the invention is further to provide a detection system in which said problem is removed.

Said aim is achieved according to the invention in that the memory device is equipped for temporary continuous storage of the captured video images for a predetermined period and permanent storage of the temporarily stored video images in response to the detection signal from the detector.

For

example, continuous video images of all goods, vehicles, animals or people passing the receiver can be stored in the memory means. This visual identity of the goods, vehicles, animals or people is stored for only a limited period if a predetermined state of the element, badge, tag or card is not also recognised by the detection system. However, if such a state is recognised, recording of this state or information then takes place together with the stored associated video information. As a result of the measure of temporary storage of the video images and conditional permanent storage of the video images a small memory capacity can suffice.

Preferably, the memory device comprises a temporary memory section and a permanent memory section with a transfer channel, controlled by the detection signal, between them. The temporary memory section can comprise a FIFO memory.

Further developments and embodiments of the invention are described in the further dependent claims.

The invention will be explained in more detail below with reference to the drawings. In the drawings:

Fig. 1 shows an embodiment of the detection system according to the invention used with an identification system for access control of persons; and

Fig. 2 shows an embodiment of the detection system according to the invention which, by way of example, is used in an anti-theft security system.

Fig. 1 shows a door 1 that can give access to a secure area. The door 1 can be opened or is opened only when an authorised person wishes to enter the secure area. Authorised persons are given an element in the form of an identity card or badge in order to open the door or to release the opening thereof. This identity card is brought into a state in which an identification number, which may or may not be encoded, has been incorporated on said identity card.

A receiver 2, which is fixed to the wall 3 alongside the door 1, operates in conjunction with the identity badges or cards. A video cell 4 is positioned close to the receiver 2.

When the identity badge or card is brought into the vicinity of the receiver 2 the identification number or other information on the identity badge is read by the receiver, optionally contact-free. At the same time the video cell 4 records video images of the person submitting the identity card 5 and the video images are stored in a memory device, which is

not shown in Figure 1. The visual identity of the person is stored for only a limited period and is permanently stored only if an identity badge or card is submitted by a person. It is also possible to store the visual identity of the person permanently only if an identification number of an authorised person is detected. It is now possible to record an identification number or 5 other information together with the associated stored video information. It is then possible to check, even later on, whether the identification number and the image of the person belong to one another and in fact only an authorised person has gained access to the secure area.

Using the detection system it is also possible continuously to store video images, in a video memory device, of all goods, vehicles, animals or other objects which are acting as 10 wearers and which pass the detection system. By this means information on all element wearers in relation to video images of said wearers can be stored.

In Fig. 2 the detection system according to the invention is used in an anti-theft security system. The detection system comprises a transmitter 6 which by means of a transmitter antenna 7 connected thereto generates an alternating magnetic field. The alternating magnetic 15 field is received by the receiver antenna 8 and transmitted to the receiver 9.

In the case of the anti-theft security system elements in the form of anti-theft security tags, which are not shown in the figure, are employed. An anti-theft security tag comprises a carrier or substrate made of insulating plastic material, on which a signal element or a matched circuit has been arranged. The anti-theft security tags are fitted to articles which have 20 to be protected against theft.

If the article has been paid for at the checkout, the anti-theft security tag is brought into a predetermined first state. No alarm will be given when the article is taken outside between the transmitter antenna 7 and the receiver antenna 8. However, if the article has not been paid for the anti-theft security tag will be kept in a second predetermined state (unpaid state). 25 When, in this case, the article that has not been paid for is taken outside between the transmitter antenna 7 and the receiver antenna 8 the receiver 9 will react to this second state and the detector in the receiver, which is not shown separately, will emit a detection signal to control an alarm.

A video camera 10, which is focused on the passageway between the transmitter antenna 7 and receiver antenna 8 has been set up close to the receiver. The support for the video camera can be provided in any known manner and is therefore not indicated. The video camera can also be fixed to the receiver antenna. The video camera 10 records video images of the person who picks up the article and thus the tag or element affixed thereto. The video

images are fed via the cable 11 to the memory device 12 and stored therein.

In the embodiment shown the video images are also fed via the cable 13 to the PC 16 in order to display these video images thereon. These video images rendered visible have a preventive action with regard to theft.

5 The memory device 12 consists of a temporary memory section and a permanent memory section with a transfer channel between them. Since such a configuration can be implemented by any ordinary person skilled in the art, it is not shown in detail. Video images of all goods and/or persons who pass by the detection system are continuously stored in the temporary memory section and this visual identity of the goods and/or persons is stored for
10 only a limited period, that is to say for a relatively short period. When an anti-theft security tag is detected the transfer channel between the temporary memory section and the permanent memory section is activated to transfer the visual identity from the temporary memory section to the permanent memory section and to store it permanently in the latter section. Activation of the transfer channel can also be effected by means of a detection signal, associated with the
15 state of the anti-theft security tag, which represents an article that has not been paid for. The detection signal is fed via the cable 14 to the control for the transfer channel.

20 The anti-theft security tag can also have been provided with a code which contains specific information, so that recording this code is able to take place together with storage of associated visual identification information. The data read by the receiver can also be fed to the PC via the cable 15.

The temporary memory section can also comprise a sliding register or FIFO memory.

Because recognisable image information can be obtained only from images which show the person submitting or wearing an article from a specific viewpoint, the image material that is stored during identification of the badge, tag or card is often not usable. It must be possible to have available images recorded earlier than images recorded at the point in time when the badge, tag or card is detected. As a result of the continuous storage of the image material for a specific period, image material recorded earlier can be combined and recorded with the detected information on the badge, tag or card. As a result of the use of a temporary memory section and a permanent memory section it is possible for a limited capacity of the overall
25 memory device to suffice.

30 The detection system can also be provided with a time and/or location indicator which is controlled by the detection signal from the detector in the receiver in order to record the time and/or location relating to the permanently stored video images in the permanent

memory section.

In addition to having an anti-theft security function, the element working in conjunction with the receiver can also contain data which are read by means of a reader, for example when scanning the article. With the detection system according to the invention the memory device is in this case equipped such that the data on the element are stored in relation to the permanently stored video images of the article or of the person.

In another embodiment of the invention the element is provided with recognition data on the wearer (article or person) associated with the element. Furthermore, there is a processing device, for example the PC, in the detection system, which is provided with image recognition software for deriving recognition data from the permanently stored video images. Comparison of the derived recognition data with the recognition data read from the element yields information which can lead to even greater security.

EPO - DG 1

28. 08. 2001

6

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CLAIMS

1. Detection system comprising at least a receiver, a detector and an element that can be brought into one or more predetermined states, the receiver reacting to the states 5 of the element when the latter is brought into the vicinity of the receiver and controlling the detector to emit a detection signal that is associated with the state of the element, and further comprising a video camera focused on the surroundings of the receiver for recording the wearer wearing the element and a memory device fitted for storing the images captured by the video camera, characterised in that the memory device is 10 equipped for both temporary continuous storage of the captured video images for a predetermined period and permanent storage of the temporarily stored video images in response to the detection signal from the detector.

2. Detection system according to Claim 1, characterised in that the memory device 15 comprises a temporary memory section and a permanent memory section connected to each other bty a transfer channel, controlled by the detection signal.

3. Detection system according to claim 2, wherein the element is an activatable tag, characterised in that the detection signal is only emitted by an active tage.

4. Detection system according to Claim 2 or 3, characterised in that the temporary 20 memory section comprises a FIFO memory.

5. Detection system according to Claim 1-4, characterised in that the memory device is equipped for storing the data on the element and the permanently stored video images in relation to one another.

6. Detection system according to Claim 5, characterised in that the element is 25 provided with recognition data on the wearer associated with the element and in that a processing device is provided which is provided with image recognition software for deriving recognition data from the permanently stored video images and comparing these with the recognition data read from the element.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette

WO 01/04844 A2

(54) Title: Detection system with video camera

(57) Abstract: Detection system comprising at least a receiver, a detector and an element that can be brought into one or more predetermined states. The receiver reacts to the states of the element when the latter is brought into the vicinity of the receiver. The receiver controls the detector in order to emit a detection signal that is associated with the state of the element. There is a video camera focused on the surroundings of the receiver for recording the wearer wearing the element and a memory device is installed for storing the images recorded by the video camera.

1/1

Fig - 1

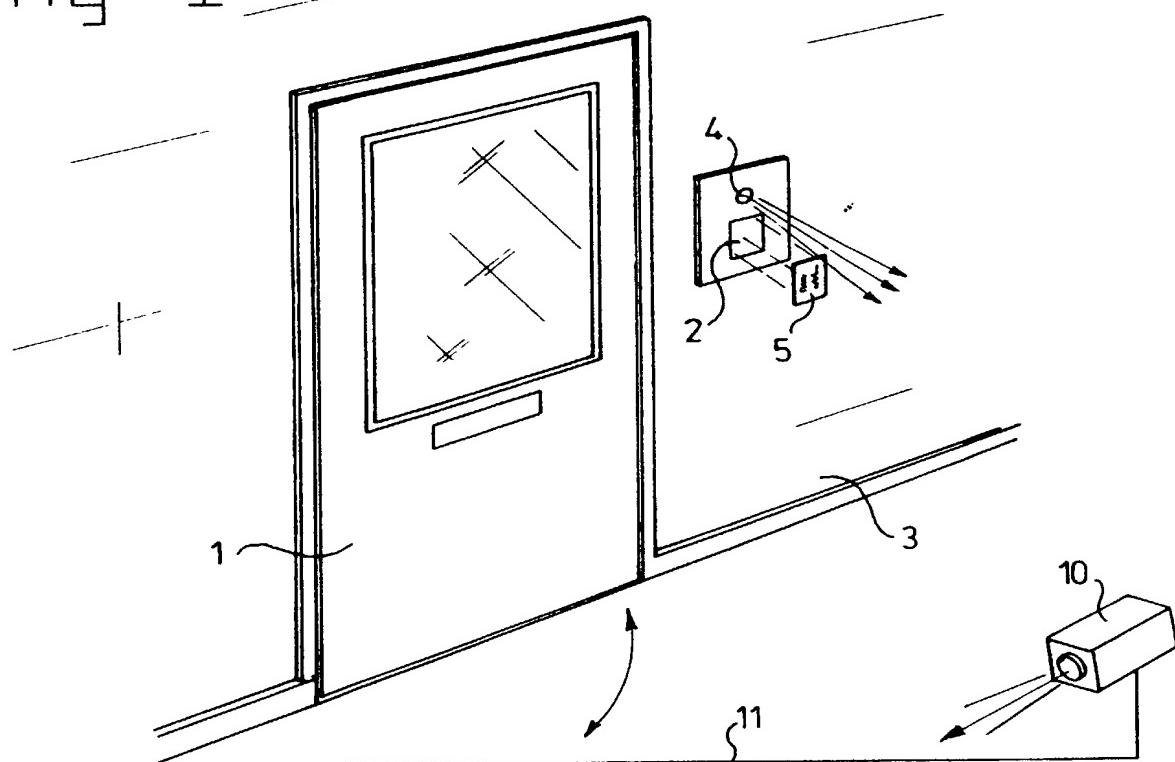
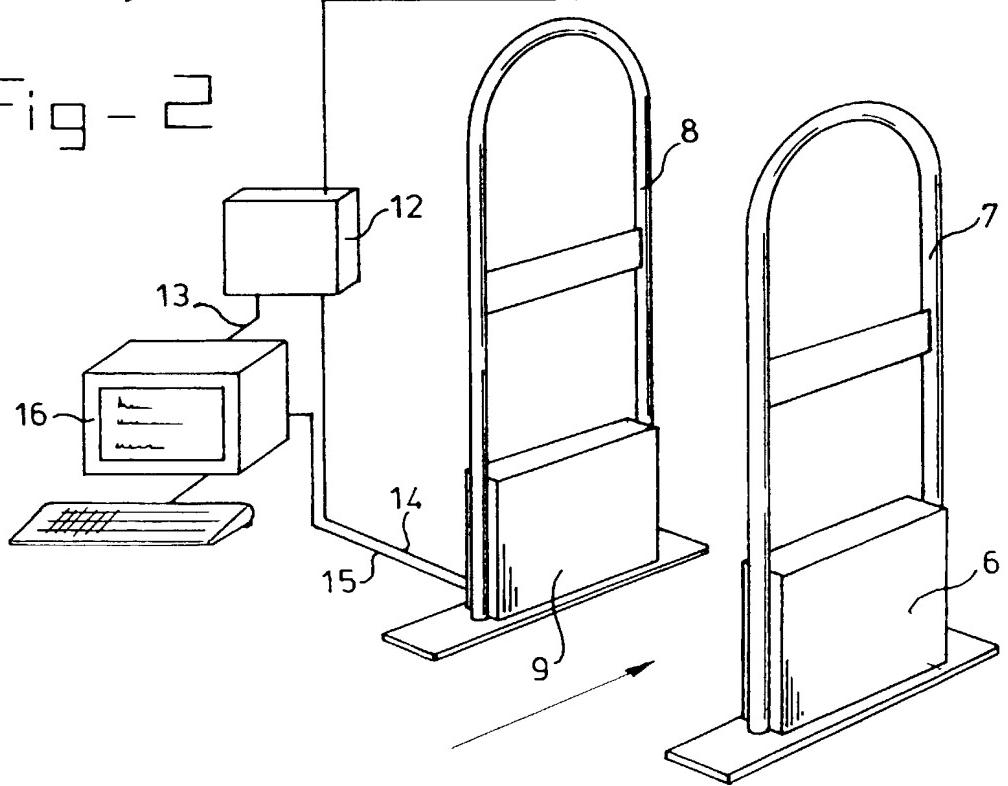


Fig - 2



#6

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL DESIGN, NATIONAL STAGE OF PCT OR CIP APPLICATION)

As a below named inventor, I hereby declare that

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Detection system with video camera

the specification of which: (complete (a), (b) or (c) for type of application)

REGULAR OR DESIGN APPLICATION

- a. [] is attached hereto.
b. [] was filed on _____ as Application
Serial No. _____ and was amended on _____
(if applicable)

PCT FILED APPLICATION ENTERING NATIONAL STAGE

- c. was described and claimed in International application No. PCT/NL00/00495
filed on 13 July 2000
and as amended on _____ (if any)

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, paragraph 1.56(a).

In compliance with this duty there is attached an information disclosure statement 37 CFR 1.97

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code paragraph 119 of any foreign application (s) for patent of inventor's certificate listed below and have also identified below any foreign application for patent of inventor's certificate having a filing date before that of the application on which priority is claimed.

(complete (d) or (e))

- d. [] no such applications have been filed
e. [X] such applications have been filed as follows

**EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION**

Country	Application Number	Date of filing (day, month, year)	Date of Issue (day, month, year)	Priority claimed
the Netherlands	1012592	13 July 1999		Yes

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION**

CONTINUATION-IN-PART

(Complete this part only if this is a continuation-in-part application)

I hereby declare claim the benefit under Title 35, United States code, paragraph 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claim of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, paragraph 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, paragraph 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.) (Filing date) (Status) (patented, pending, abandoned)

(Application Serial No.) (Filing date) (Status) (patented, pending, abandoned)

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Robert J. PATCH, Reg. No. 17,355, Andrew J. PATCH, Reg. No. 32,925, Robert F. HARGEST, Reg. No. 25,590, Benoît CASTEL, Reg. No. 35,041, Eric Jensen, Reg. No. 37,855, and Thomas W. PERKINS, Reg. No. 33,027 and Roland E. Long, Jr. Reg. No. 41,949 c/o YOUNG & THOMPSON, Second Floor, 745 South 23rd Street, Arlington, Virginia 22202.

Address all telephone calls to Young & Thompson at 703/521-2297.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

1-00 Full name of sole or first inventor: DE NOOD, Cornelis Simon Adriaan

Inventor's signature



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Residence: Harderwijk, the Netherlands NL

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2-00 Full name of second inventor: ANGEL, Willem

Inventor's signature



Date 10 January 2002 Country of Citizenship: the Netherlands

Residence: ZWOLLE, the Netherlands NL

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